**Assignment No: 01**

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Fall 2022

CSE-423 Web Engineering

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Class Section: **B**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

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Submitted to:

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**Department of Computer Systems Engineering**

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**Task:**

Describe which Process Model is best suited for Web-based System/Application development (keeping in view the requirements for a web application development process)?

**CLO-1 [Cognitive Domain: Comprehension]**

**Answer:**

Agile process model is the most appropriate and widely used development model When it comes to developing web-based systems or applications. Agile is a flexible and iterative approach that emphasizes the continuous delivery of working software and encourages collaboration among team members and stakeholders.

Here are some of the reasons why Agile is the best-suited process model for web-based system/application development:

* **Flexibility:** Web-based systems are often complex and subject to changing requirements due to rapidly evolving technologies and user needs. The Agile model's iterative and incremental approach allows teams to adapt to changes quickly and respond to feedback in a timely manner.
* **Continuous Delivery:** Web-based systems require constant updates, enhancements, and bug fixes. The Agile model's focus on delivering working software frequently ensures that the development team can quickly respond to changes and keep the system up-to-date.
* **Collaborative Approach:** Developing web-based systems is a team effort that involves multiple stakeholders, including developers, designers, product owners, and end-users. The Agile model's emphasis on collaboration and communication fosters a shared understanding of project goals and helps ensure that everyone is aligned towards a common goal.
* **Customer-Centric:** Web-based systems are often developed to meet the needs of a specific audience or market segment. The Agile model's customer-centric approach puts the user at the center of the development process and ensures that the system meets their needs and expectations.
* **Quality Assurance:** Web-based systems are subject to stringent quality standards, including performance, security, and accessibility. The Agile model's focus on continuous testing and integration ensures that quality standards are met throughout the development process.

Overall, the Agile process model is the most suitable approach for developing web-based systems and applications. Its flexibility, continuous delivery, collaborative approach, customer-centric focus, and quality assurance ensure that the end product meets user needs and is of high quality.